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**Chip-interleaved, block-spread multi-user communication - Patent ...**

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multi-user spreading code correlation matrix does not depend on the symbol instant. 0, it can be precalculated at the base- ...

ftp://ftp.esat.kuleuven.ac.be/pub/SISTA/leus/reports/02-139.pdf - Similar pages - Note this

**List of my publications**

G. Leus, S. Zhou, and G. B. Giannakis; "Multi-User Spreading Codes Retaining Orthogonality through Unknown Time- and Frequency-Selective Fading," ...

cas.et.tudelift.nl/~leus/publications.html - 53k - Cached - Similar pages - Note this

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isid=31023&arid=665105&topMenu=2&topMenu1=1 - 42k -

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IET JNL	IET Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
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1. Performance of UWB-IR with polarity randomization and interleaved cod multipath fading channels  
Pietrzyk, M.M.; Weber, J.H.;  
Vehicular Technology Conference, 2005. VTC 2005-Spring. 2005 IEEE 61st  
Volume 2, 30 May-1 June 2005 Page(s):1365 - 1369 Vol. 2  
Digital Object Identifier 10.1109/VETECS.2005.1543532  
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1. Multi-user interference resilient ultra wideband (UWB) communication

Giannakis, Georgios B. / Yang, Liuqing, *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Dec 2004  
patno: US20040240527

...to different frames are interleaved. Transmitters 12 output a UWB transmission signal from the stream of chips. [0044] The stream...white Gaussian noise (AWGN). [0046]  
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# Inventor Information for 10/796895

Inventor Name	City	State/Country
GIANNAKIS, GEORGIOS B.	MINNETONKA	MINNESOTA
YANG, LIUQING	FALCON HEIGHTS	MINNESOTA

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## PALM INTRANET

## Inventor Name Search Result

Your Search was:

Last Name = GIANNAKIS

First Name = GEORGIOS

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<a href="#">60274365</a>	Not Issued	159	03/08/2001	Chip-interleaved block-spread code division multiple access	GIANNAKIS, GEORGIOS
<a href="#">60274367</a>	Not Issued	159	03/08/2001	Finite-alphabet based channel estimation for OFDM and related multi-carrier systems	GIANNAKIS, GEORGIOS
<a href="#">60906989</a>	Not Issued	20	03/14/2007	Stochastic routing in wireless multihop networks	GIANNAKIS, GEORGIOS
<a href="#">09838621</a>	<a href="#">6912241</a>	150	04/19/2001	CHIP-INTERLEAVED, BLOCK-SPREAD MULTI-USER COMMUNICATION	GIANNAKIS, GEORGIOS B.
<a href="#">10094946</a>	<a href="#">7139321</a>	150	03/07/2002	CHANNEL ESTIMATION FOR WIRELESS OFDM SYSTEMS	GIANNAKIS, GEORGIOS B.
<a href="#">10158390</a>	<a href="#">7190734</a>	150	05/28/2002	SPACE-TIME CODED TRANSMISSIONS WITHIN A WIRELESS COMMUNICATION NETWORK	GIANNAKIS, GEORGIOS B.
<a href="#">10420351</a>	Not Issued	30	04/21/2003	Space-time coding using estimated channel information	GIANNAKIS, GEORGIOS B.
<a href="#">10420352</a>	<a href="#">7224744</a>	150	04/21/2003	SPACE-TIME MULTIPATH CODING SCHEMES FOR WIRELESS COMMUNICATION SYSTEMS	GIANNAKIS, GEORGIOS B.
<a href="#">10420353</a>	<a href="#">7292647</a>	150	04/21/2003	WIRELESS COMMUNICATION SYSTEM HAVING LINEAR ENCODER	GIANNAKIS, GEORGIOS B.
<a href="#">10420361</a>	<a href="#">7251768</a>	150	04/21/2003	WIRELESS COMMUNICATION SYSTEM HAVING ERROR-CONTROL CODER AND LINEAR PRECODER	GIANNAKIS, GEORGIOS B.
<a href="#">10421678</a>	<a href="#">7280604</a>	150	04/21/2003	SPACE-TIME DOPPLER CODING SCHEMES FOR TIME-SELECTIVE WIRELESS COMMUNICATION CHANNELS	GIANNAKIS, GEORGIOS B.
<a href="#">10796563</a>	<a href="#">7340009</a>	150	03/08/2004	SPACE-TIME CODING FOR	GIANNAKIS,

				MULTI-ANTENNA ULTRA-WIDEBAND TRANSMISSIONS	GEORGIOS B.
<a href="#">10796567</a>	Not Issued	95	03/08/2004	TIMING SYNCHRONIZATION USING DIRTY TEMPLATES IN ULTRA WIDEBAND (UWB) COMMUNICATIONS	GIANNAKIS, GEORGIOS B.
<a href="#">10796570</a>	Not Issued	61	03/08/2004	Pilot waveform assisted modulation for ultra-wideband communications	GIANNAKIS, GEORGIOS B.
<a href="#">10796895</a>	Not Issued	41	03/08/2004	Multi-user interference resilient ultra wideband (UWB) communication	GIANNAKIS, GEORGIOS B.
<a href="#">10828104</a>	Not Issued	41	04/20/2004	Space-time-frequency coded OFDM communications over frequency-selective fading channels	GIANNAKIS, GEORGIOS B.
<a href="#">10841806</a>	Not Issued	80	05/07/2004	Receiver for chip-interleaved block-spread multi-user communication systems	GIANNAKIS, GEORGIOS B.
<a href="#">10850825</a>	Not Issued	41	05/21/2004	Channel estimation for block transmissions over time-and frequency-selective wireless fading channels	GIANNAKIS, GEORGIOS B.
<a href="#">10850961</a>	Not Issued	161	05/21/2004	Estimating frequency-offsets and multi-antenna channels in MIMO OFDM systems	GIANNAKIS, GEORGIOS B.
<a href="#">10952713</a>	Not Issued	30	09/29/2004	Pulse shaper design for ultra-wideband communications	GIANNAKIS, GEORGIOS B.
<a href="#">10953493</a>	Not Issued	30	09/29/2004	Digital carrier multi-band user codes for ultra-wideband multiple access	GIANNAKIS, GEORGIOS B.
<a href="#">10955336</a>	Not Issued	30	09/30/2004	Full-diversity, full-rate complex-field space-time coding for wireless communication	GIANNAKIS, GEORGIOS B.
<a href="#">11070855</a>	Not Issued	30	03/02/2005	Bandwidth and power efficient multicarrier multiple access	GIANNAKIS, GEORGIOS B.
<a href="#">11242623</a>	Not Issued	30	10/03/2005	Noncoherent ultra-wideband (UWB) demodulation	GIANNAKIS, GEORGIOS B.
<a href="#">11243454</a>	Not Issued	30	10/04/2005	Blind synchronization and demodulation	GIANNAKIS, GEORGIOS B.
<a href="#">11682664</a>	Not Issued	30	03/06/2007	SPACE-TIME CODED TRANSMISSIONS WITHIN A WIRELESS COMMUNICATION NETWORK	GIANNAKIS, GEORGIOS B.
<a href="#">60220899</a>	Not Issued	159	07/25/2000	Methods and apparatus for crosstalk cancellation in DSL modems	GIANNAKIS, GEORGIOS B.
<a href="#">60293476</a>	Not	159	05/25/2001	Space-time coded transmission	GIANNAKIS,

	Issued			with maximum diversity gains over frequency-selective multipath fading channels	GEORGIOS B.
<a href="#">60374886</a>	Not Issued	159	04/22/2002	Transceiver designs combining complex-field coding with galois-field coding and low-complexity turbo-decoding for wireless fading communication channels	GIANNAKIS, GEORGIOS B.
<a href="#">60374933</a>	Not Issued	159	04/22/2002	Optimal transmitter eigen-beamforming and space time block coding based on partial channel state information	GIANNAKIS, GEORGIOS B.
<a href="#">60374934</a>	Not Issued	159	04/22/2002	Space-time-multipath coding using digital phase sweeping and block circular delay diversity for wireless transmissions over frequency-selective fading channels	GIANNAKIS, GEORGIOS B.
<a href="#">60374935</a>	Not Issued	159	04/22/2002	Linear constellation precoding for fading communication channels	GIANNAKIS, GEORGIOS B.
<a href="#">60374981</a>	Not Issued	159	04/22/2002	Space-time-doppler coding for wireless and mobile communications over time-selective and doubly-selective fading channels	GIANNAKIS, GEORGIOS B.
<a href="#">60453659</a>	Not Issued	159	03/08/2003	Low-complexity training for timing acquisition in ultra wideband communications	GIANNAKIS, GEORGIOS B.
<a href="#">60453803</a>	Not Issued	159	03/08/2003	Non-data aided timing-offset estimation for ultra-wideband transmissions using cyclostationarity	GIANNAKIS, GEORGIOS B.
<a href="#">60453804</a>	Not Issued	159	03/08/2003	Optimal pilot waveform assisted modulation for ultra wideband communications	GIANNAKIS, GEORGIOS B.
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<a href="#">60453810</a>	Not Issued	159	03/08/2003	Analog space-time coding for multi-antenna ultra-wideband transmissions	GIANNAKIS, GEORGIOS B.
<a href="#">60464307</a>	Not Issued	159	04/21/2003	Space-time-frequency coding for mimo-OFDM	GIANNAKIS, GEORGIOS B.
<a href="#">60469611</a>	Not Issued	159	05/09/2003	Receiver for chip-interleaved, block-spread multi-user communication system	GIANNAKIS, GEORGIOS B.
<a href="#">60472290</a>	Not Issued	159	05/21/2003	Optimal training for block transmissions over doubly-selective wireless fading channels	GIANNAKIS, GEORGIOS B.

<a href="#">60472297</a>	Not Issued	159	05/21/2003	Estimating frequency-offsets and multi-antenna channels for MIMO OFDM	GIANNAKIS, GEORGIOS B.
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<a href="#">60615489</a>	Not Issued	159	10/01/2004	Noncoherent ultra-wideband radios	GIANNAKIS, GEORGIOS B.
<a href="#">60615802</a>	Not Issued	159	10/04/2004	Low-complexity blind synchronization and demodulation	GIANNAKIS, GEORGIOS B.

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Your Search was:

Last Name = YANG

First Name = LIUQING

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<a href="#">10796563</a>	7340009	150	03/08/2004	SPACE-TIME CODING FOR MULTI-ANTENNA ULTRA-WIDEBAND TRANSMISSIONS	YANG, LIUQING
<a href="#">10796567</a>	Not Issued	95	03/08/2004	TIMING SYNCHRONIZATION USING DIRTY TEMPLATES IN ULTRA WIDEBAND (UWB) COMMUNICATIONS	YANG, LIUQING
<a href="#">10796570</a>	Not Issued	61	03/08/2004	Pilot waveform assisted modulation for ultra-wideband communications	YANG, LIUQING
<a href="#">10796895</a>	Not Issued	41	03/08/2004	Multi-user interference resilient ultra wideband (UWB) communication	YANG, LIUQING
<a href="#">10952713</a>	Not Issued	30	09/29/2004	Pulse shaper design for ultra-wideband communications	YANG, LIUQING
<a href="#">10953493</a>	Not Issued	30	09/29/2004	Digital carrier multi-band user codes for ultra-wideband multiple access	YANG, LIUQING
<a href="#">11242623</a>	Not Issued	30	10/03/2005	Noncoherent ultra-wideband (UWB) demodulation	YANG, LIUQING
<a href="#">60453659</a>	Not Issued	159	03/08/2003	Low-complexity training for timing acquisition in ultra wideband communications	YANG, LIUQING
<a href="#">60453803</a>	Not Issued	159	03/08/2003	Non-data aided timing-offset estimation for ultra-wideband transmissions using cyclostationarity	YANG, LIUQING
<a href="#">60453804</a>	Not Issued	159	03/08/2003	Optimal pilot waveform assisted modulation for ultra wideband communications	YANG, LIUQING
<a href="#">60453809</a>	Not Issued	159	03/08/2003	Multi-user interference resilient algorithms for ultra-wideband multiple access through multipath channels	YANG, LIUQING
<a href="#">60453810</a>	Not Issued	159	03/08/2003	Analog space-time coding for multi-antenna ultra-wideband transmissions	YANG, LIUQING

<a href="#">60507269</a>	Not Issued	159	09/30/2003	Digital carrier multi-band user codes for ultra wide band multiple access	YANG, LIUQING
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## Parent Data

10796895, filed 03/08/2004

Claims Priority from Provisional Application 60453809, filed 03/08/2003

## Child Data

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AssignmentsExaminer Number: 80488 / TORRES, JUAN

Filing or 371(c) Date: 03/08/2004 eDan

Group Art Unit: 2611

IFW Madras

Effective Date: 03/08/2004

Class/Subclass:

375/138.000

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Application Received: 03/10/2004

Lost Case: NO

Pat. Num./Pub. Num: /20040240527

Interference Number:

Prior Art Filed

Issue Date: 00/00/0000

Unmatched Petition: NO

Mail Non Final

Date of Abandonment: 00/00/0000

L&R Code; Secrecy Code:1

Attorney Docket Number: 1008-011US01

Third Level Review: NO

Secrecy Order: NO

Status: 41 /NON FINAL ACTION MAILED

Status Date: 11/14/2007

Confirmation Number: 1645

Oral Hearing: NO

Title of Invention: MULTI-USER INTERFERENCE RESILIENT ULTRA WIDEBAND (UWB)  
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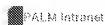
After Non Final
Check DOC's <input checked="" type="checkbox"/>

Application  
Number

IDS Flag Clearance for Application: 10796895

**IDS  
Information**

Content	Mailroom Date	Entry Number	IDS Review	Last Modified	Reviewer
WIDS	2008-02-14	40	Y <input checked="" type="checkbox"/>	2008-02-15 17:11:37.0	jtorres1
WIDS	2005-03-24	21	Y <input checked="" type="checkbox"/>	2007-05-09 00:00:00.0	CR #232884
WIDS	2004-09-27	13	Y <input checked="" type="checkbox"/>	2007-05-09 00:00:00.0	CR #232884
<input type="button" value="Update"/>					



Application  
Number

IDS Flag Clearance for Application 10790895

**IDS  
Information**

Content	Mailroom Date	Entry Number	IDS Review	Last Modified	Reviewer
WIDS	2008-02-14	44	Y <input checked="" type="checkbox"/>	2008-03-31 17:50:44.0	jtorres1
WIDS	2005-03-24	21	Y <input checked="" type="checkbox"/>	2007-05-09 00:00:00.0	CR #232884
WIDS	2004-09-27	13	Y <input checked="" type="checkbox"/>	2007-05-09 00:00:00.0	CR #232884
<input type="button" value="Update"/>					